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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/015,751

12/17/2001

Benoit Nadeau-Dostie

LVPAT045US

2882

26668

7590

06/21/2004

LOGICVISION (CANADA), INC.
1565 CARLING AVENUE, SUITE 508
OTTAWA, ON K1Z 8R1
CANADA

EXAMINER

DO, THUAN V

ART UNIT

PAPER NUMBER

2825

DATE MAILED: 06/21/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

37

Office Action Summary	Application No.	Applicant(s)	
	10/015,751	NADEAU-DOSTIE ET AL.	
	Examiner	Art Unit	
	Thuan Do	2825	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 17 December 2001.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-79 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1,2,6,7,9,13,18,19,26,27,29-46,50,56,63,64,68 and 70 is/are rejected.
- 7) ☒ Claim(s) 3-5,8,10-12,14-17,20-25,28,45,47-49,51-55,57-62,65-67,69,71-79 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 12/17/01 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date <u>12/17/01&05/02/03</u> | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. This office action is responsive to application dated on 12/17/01. Claims 1-79 are pending in this office action.

Claim objections

Claim 1, the term "patterns which do not result in elevated quiescent current levels" is unclear to what it means. Clarification or correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1,2,6,7,9,13,18,19,26,27,29-46,50,56,63,64,68 and 70 are rejected under 35 U.S.C. 102(b) as being unpatentable over Deao et al., Pat. No. 6055649.

Regarding claim 1: Deao teaches a method comprising:

configuring the block and any embedded blocks located one level down in design hierarchy in quiescent current test mode in which input peripheral memory elements are configured in internal test mode and output peripheral memory elements are configured in external test mode (Fig. 15; col. 4, lines 24-40 and col. 26, lines 20-28);

generating quiescent current test patterns which do not result in elevated quiescent current levels and which include a bit for all memory elements in said block and any peripheral memory elements in any embedded blocks located one level down in design hierarchy (Fig. 15; col. 4, lines 24-40 and col. 26, lines 20-28); and

if said block contains embedded blocks, synchronizing each test pattern with a corresponding test pattern generated for embedded blocks so that test patterns loaded in scan chains in the block are consistent with test patterns loaded in scan chains in said embedded blocks (col. 1, lines 49-67) .

Regarding claims 27,42,68: These claims teach similar features of claim 1 and rejected in similar manner.

Regarding claims 2,6,7,9,13,18,19,26,29-41,43,44,46,50,56,63,64,70: These claims teach similar features of claims 1,27,42 and 68 and rejected in similar manners.

Allowable Subject Matter

Claims 3-5,8,10-12,14-17,20-25,28,45,47-49,51-55,57-62,65-67,69,71-79 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. The reason for allowance is that the prior art of record fails to teach the combination of dependent claims and all other features of corresponding independent claims.

CONTACT INFORMATION

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thuan Do whose telephone number is 571-272-1891. The examiner can normally be reached on Monday-Friday 8:30-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew S. Smith can be reached on 571-272-1907. The fax phone numbers for the organization where this application or proceeding is assigned are 703 305-3431 for regular communications and 703-305-3431 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0596.



Thuan Do
Patent examiner
6/17/04